EXECUTIVE SUMMARY

| Mine Name: CATO Placer Sand #1 | I.D. No. ACT/019/017 |
|--|--|
| Operator: Crater Exploration, Inc. | County: Grand |
| 954 East 7145 South, Suite 202 | New/Existing: New |
| Midvale, Utah 84047 | Mineral Ownership: Fed. Land Bk./State |
| Telephone: (801) 255-3183 | Surface Cwnership: Private |
| Contact Person: Wilford Ruf | Lease No.(s): U-39855 (state) |
| Life of Mine: 20 years | Permit Term: 1 yr (concurrently w/bond) |
| Legal Description: Section 8, Township 23 S | bouth, Range 24 East |
| Mineral(s) to be Mined: Cold & other preciou | is metals |
| Mining Methods: Placer; mass and size classi | fication |
| Acres to be Disturbed: 50 total (no more the | an 10/yr) |
| Present Land Use: Agriculture, native habit Postmining Land Use: Agriculture | at |
| Variances from Reclamation Standards (Rule M-I | O Control |
| variances from Reclamación Standards (Rule M-1 | .0) Granted: None |
| Soils and Coolomy | |
| Soils and Geology: | |
| Soil Description:Fine silt, sand and clay | deposited by the action of the Coloredo |
| River over an old gravel bar. | deposited by the action of the colorado |
| pH: 7-8 | |
| Special Handling Problems: None Known | |
| Geology Description: As above. | |
| | |
| Ground Water Description: None Known | la dissata samuelli ha dha Calassaia Rissa |
| Surface Water Description: Ephemeral channe | ls direct runoff to the Colorado River. |
| Water Monitoring Plan: None; no water will | be discharged into the Colorado River. |
| Total in water will | be discharged like die colorado kiver: |
| | |
| Ecology: | |
| | |
| Vegetation Type(s); Dominant Species: riparia | n; tamarisk willow; upland native; big |
| cottonwood; greasewood; rabbitbrush; agricultu | ral; alfalfa. |
| Percent Surrounding Vegetative Cover: Alfal | fa yield - 6 to 7 tons/acre |
| | |
| Wildlife Concerns: None | |
| | ry fuel tank, semi-trailers, front-end |
| loader, large backhoe. One power pole on-site | |
| Mining and Reclamation Plan Summary: See At | tachment |
| Surety: | |
| Amount: \$9,680.00 (see attached estimate) | |
| Form: Insurance Bond Irrevocable Vet | Loral Credit First Titordalo |
| Renewable Term: One Year | terofCredit First Interstale Bank, S.L.C. |
| | Bank, s.l.C. |
| | |

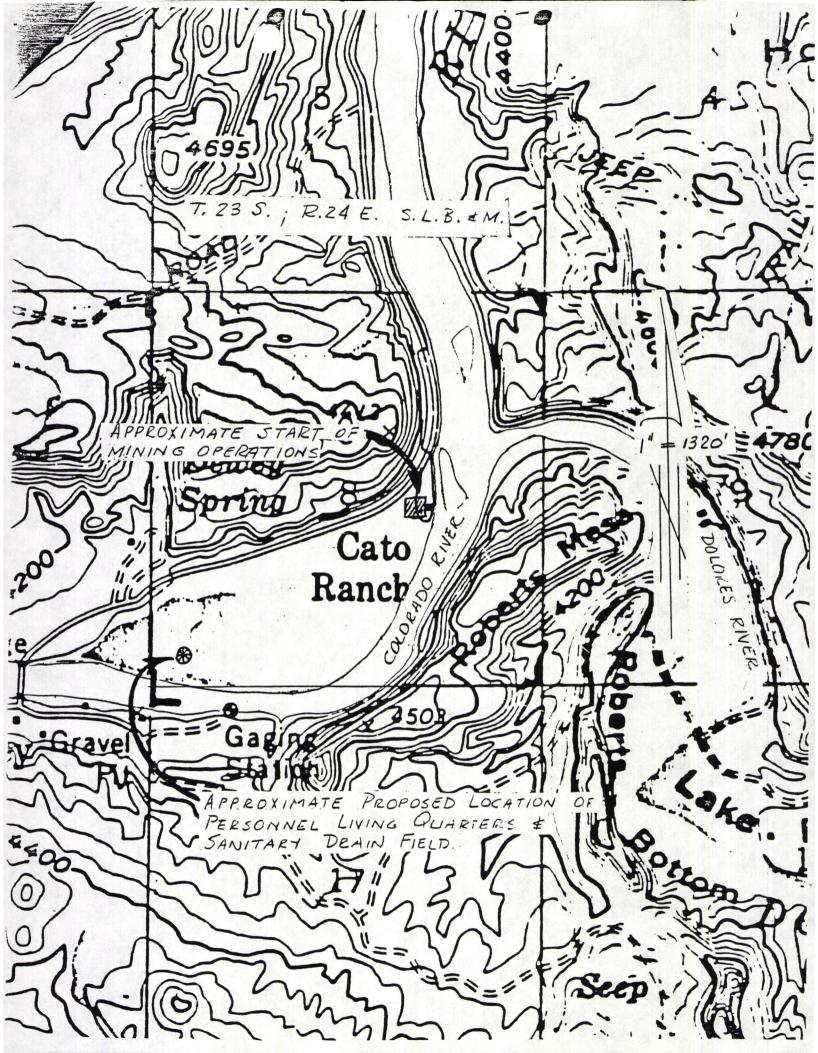
MINING AND RECLAMATION PLAN SUMMARY

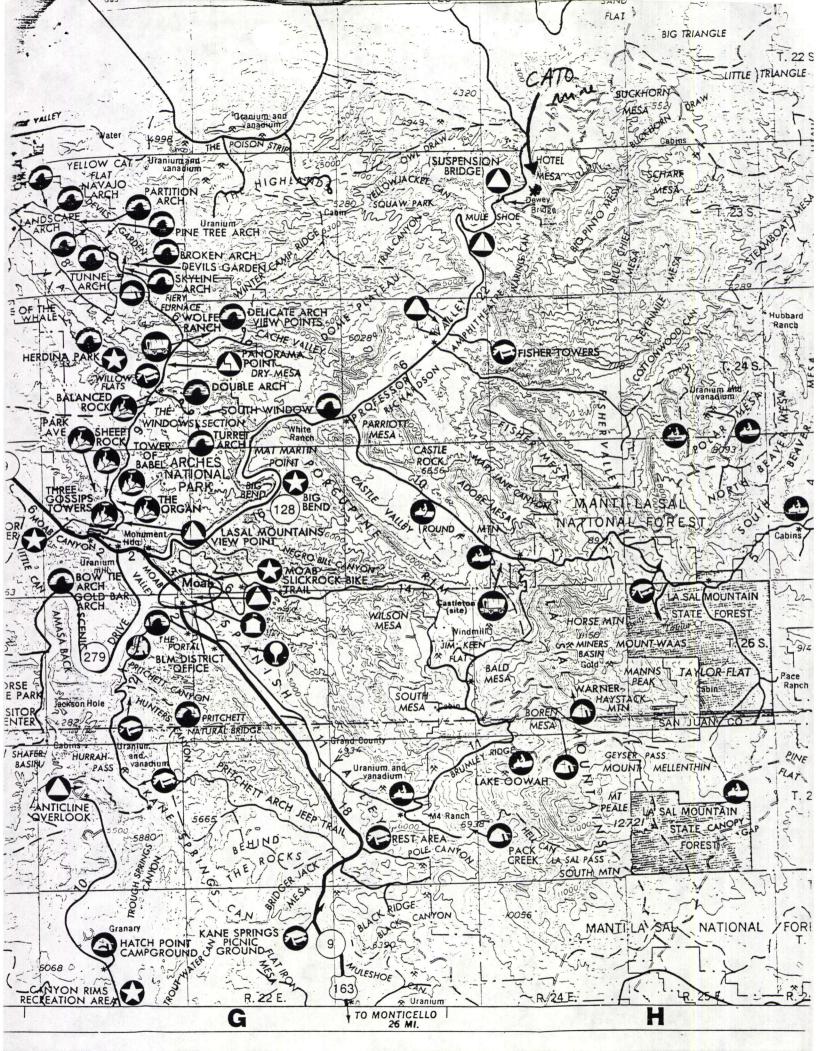
During Operations:

- 1. This operation will be a placer mine, obtaining precious metals through sand and gravel washing and classification.
- 2. Water from the Colorado River will be pumped into a holding pond, then into the placer washing system.
- 3. Sands and gravels will be picked up with a backhoe, washed, flocculated with a biodegradable detergent, then classified and concentrated. Final chemical processing will be done off the minesite.
- 4. After concentration, sand and silt will be pumped into a tailings pond. Clarified water will be routed back into the holding pond for re-use. There will be no discharge of the mining process water into the Colorado River.
- 5. A maximum of 10 acres will be disturbed per year.

After Operations:

- 1. As the active mining front progresses to the southwest, silt and sand deposited as tailings material will be preliminarily regraded. This will be a continuous process.
- 2. The landowners will take responsibility for establishing final grade and replanting the area. The entire disturbed area will be reclaimed to agricultural crops, with the aid of the Soil Conservation Service (SCS). SCS will determine fertilization and irrigation needs.
- 3. Final reclamation of all disturbed acreage will take place each fall.
- 4. There will be no permanent fixtures on-site. All equipment will be removed after the entire area has been mined and reclaimed.





DIVISION OF OIL, GAS, AND MINING BOND ESTIMATE

OPERATOR:

Crater Exploration, Inc.

MINE NAME:

Cato Placer

LOCATION:

Sec. 8, T. 23 S., R. 24 E., SLB&M

COUNTY:

Grand

DATE:

May 19, 1983 .

Based on 10 acres maximum annual reclamation

| | Operation | Amount | Rate | Cost |
|---------|--------------------------------------|---------------|--------------|------------|
| ar na s | | | | |
| CLEAN | | | | |
| | Removal of structures & equipment. | \$500.00 | Lump Sum | \$ 500.00 |
| | Removal of trash & debris. | \$300.00 | Lump Sum | 300.00 |
| 2. | Leveling of ancillary facilities | \$500.00 | Lump Sum | 500.00 |
| | pads and access roads. | | | |
| REGRA | DING & RECONTOURING | | | |
| 1. | Earthwork including haulage and | | | |
| | grading of spoils, waste and over- | \$450.00/ac | 10 ac | 4,500.00 |
| | burden. | | | |
| 2. | Recommon of highwalls and | n/a | | |
| | excavations. | , a | | |
| 3. | Spreading of soil or surficial | n/a | | |
| | materials. | | | |
| START | LIZATION | | | |
| | Soil preparation, scarification, | \$200.00/ac | 10 ac | 2,000.00 |
| | fertilization, etc. | 7200100,40 | 10 40 | 2,000.00 |
| 2 | Seeding or planting. | | | |
| | Construction of terraces, water- | | | |
| | bars, etc. | n/a | | |
| | Jan 3, 656. | | | |
| LAPOR | | | | |
| 1. | Supervision. | | | 7 - 64 |
| 2. | Labor exclusive of bulldozer time. | \$50/ac | 10 ac | 500.00 |
| | | | | |
| SAFET | Y | | 46 | |
| 1. | Erection of fences, portal cover- | n/a | | |
| | ings, etc. | 11/4 | | |
| 2. | Removal or neutralization of | n/a | | |
| | explosive or hazardous materials. | , | | |
| | | | | |
| MCHIT | CRING . | | | |
| 1. | Continuing or periodic monitoring, | \$500.00 | year . | 500.00 |
| | sampling & testing deemed necessary. | | TOTAL | \$8,800.00 |
| | | 1984-\$10,648 | 10% continge | псу |
| OTHER | | 1984-\$10,648 | | 880.00 |
| | Includes total costs per acre as per | 1986-\$12,884 | | \$9,680.00 |
| | SCS letter. | 1900-912,004 | | · d |
| | | | | |